

CLAIM LISTING

1. (Previously Presented) A method for transmitting a data stream between a base station and user terminal comprising:
 - selecting at the base station a first of multiple radio frequency (RF) resources to transmit a page;
 - transmitting the page from the base station via the first RF resource;
 - receiving the page at the user terminal via the first RF resource;
 - selecting at the user terminal one of multiple hopping sequence resources to transmit a page response, including computing a function at the user terminal to determine the hopping sequence resource to select, the selected hopping sequence resource comprising a sequence of radio frequency resources that follow a hopping sequence;
 - transmitting the page response from the user terminal via the selected hopping sequence resource in response to the page; and
 - transmitting the data stream between the base station and user terminal via a second RF resource.
2. (Original) The method of claim 1, wherein the first RF resource comprises a first RF resource that is available.
3. (Previously Presented) The method of claim 2, wherein the selected hopping sequence resource comprises a resource that is available.
4. (Previously Presented) The method of claim 1, wherein the selected hopping sequence resource comprises a sequence of radio frequency resources that follow a hopping sequence among a set of radio frequency channels.
5. (Previously Presented) The method of claim 1, wherein the selected hopping sequence resource comprises a sequence of radio frequency resources that follow a hopping sequence among a set of time slots.

6. (Previously Presented) The method of claim 1, wherein the selected hopping sequence resource comprises a sequence of radio frequency resources that follow a hopping sequence among a set of code division multiple access codes.
7. (Canceled)
8. (Previously Presented) The method of claim 1, wherein computing a function at the user terminal for the hopping sequence resource to select comprises searching a look up table at the user terminal for the hopping sequence resource to select.
9. (Previously Presented) The method of claim 1, wherein computing a function at the user terminal for the hopping sequence resource to select includes searching a look up table using information from the page to perform the search.
10. (Previously Presented) The method of claim 8, wherein searching a look up table comprises using information from the page to perform the search.
11. (Previously Presented) The method of claim 1, wherein computing a function at the user terminal for the hopping sequence resource to select includes searching a look up table using information implicit in at least one of the page and the first RF resource.
12. (Previously Presented) The method of claim 8, wherein searching a look up table comprises using information implicit in at least one of the page and the first resource.
13. (Previously Presented) The method of claim 1, wherein transmitting the page from a base station via the first RF resource comprises transmitting the page including page identifier assigned to the user terminal from the base station via the first RF resource.
14. (Previously Presented) The method of claim 13, wherein receiving the page at the user terminal via the first RF resource further comprises examining whether the page identifier in the page matches the page identifier assigned to the user terminal.

- 15.** (Previously Presented) The method of claim 14, wherein transmitting the page response from the user terminal via the selected hopping sequence resource in response to the page comprises transmitting the page selected hopping sequence response from the user terminal via the resource in response to the page if the page identifier in the page matches the page identifier assigned to the user terminal.
- 16.** (Original) The method of claim 1, further comprising transmitting a message from the base station acknowledging the page response.
- 17.** (Original) The method of claim 16, the message identifying the second RF resource for transmitting a data stream between the base station and user terminal.
- 18.** (Previously Presented) A method for transmitting a data stream comprising:
 computing a function at a base station to determine a page listening pattern followed by a user terminal;
 selecting at the base station one of multiple radio frequency (RF) resources to transmit a page, based at least in part on the computed function;
 transmitting the page from the base station via the RF resource;
 receiving a page response from the user terminal via a first of multiple hopping sequence resources in response to the page, the first hopping sequence resource comprising a sequence of radio frequency resources that follow a hopping sequence;
 transmitting a message from the base station acknowledging the page response.
- 19.** (Original) The method of claim 18, the message identifying a second resource for transmitting a data stream between the base station and the user terminal.
- 20.** (Original) The method of claim 19, the second resource comprising a sequence of radio frequency resources that follow a hopping sequence.
- 21.** (Previously Presented) The method of claim 20, further comprising transmitting the data stream to the user terminal via the second hopping sequence resource.

22. (Original) The method of claim 21, wherein the RF resource comprises a RF resource that is available.

23. (Previously Presented) The method of claim 20, wherein the second hopping sequence resource comprises the same sequence of radio frequency resources that follow a hopping sequence as the first hopping sequence resource.

24. (Previously Presented) The method of claim 20, wherein the second hopping sequence resource comprises a sequence of radio frequency resources that follow a different hopping sequence than the first hopping sequence resource.

25. (Original) The method of claim 18, wherein transmitting the page from the base station via the RF resource comprises transmitting the page including page identifier assigned to the user terminal from the base station via the RF resource.

26. (Original) The method of claim 18, wherein the sequence of radio frequency resources follow a hopping sequence among one of a set of radio frequency channels, a set of time slots, and a set of code division multiple access codes.

27. (Previously Presented) A method for transmitting a data stream comprising:
receiving a page from a base station at a user terminal via a radio frequency resource, the radio frequency resource selected by the base station from among multiple radio frequency resources;

selecting at the user terminal a first hopping sequence resource to transmit a page response, the first hopping sequence resource comprising a sequence of radio frequency resources that follow a hopping sequence, selecting the first hopping sequence resource including computing a function at the user terminal for the first hopping sequence resource to select;

transmitting the page response from the user terminal via the first hopping sequence resource in response to the page; and

receiving a message from the base station acknowledging the page response.

- 28.** (Previously Presented) The method of claim 27, the message identifying a second hopping sequence resource for transmitting a data stream between the base station and a user terminal, the second hopping sequence resource comprising a sequence of radio frequency resources that follow a hopping sequence.
- 29.** (Previously Presented) The method of claim 28, further comprising transmitting the data stream to the base station via the second hopping sequence resource.
- 30.** (Original) The method of claim 27, wherein the sequence of radio frequency resources follow a hopping sequence among one of a set of radio frequency channels, a set of time slots, and a set of code division multiple access codes.
- 31.** (Previously Presented) The method of claim 27, wherein the first hopping sequence resource comprises a first hopping sequence resource that is available.
- 32.** (Previously Presented) The method of claim 27, wherein the second hopping sequence resource comprises the same sequence of radio frequency resources that follow a hopping sequence as the first hopping sequence resource.
- 33.** (Previously Presented) The method of claim 27, wherein the second hopping sequence resource comprises a sequence of radio frequency resources that follow a different hopping sequence than the first hopping sequence resource.
- 34.** (Canceled)
- 35.** (Previously Presented) The method of claim 27, wherein computing a function at the user terminal for the first hopping sequence resource to select comprises searching a look up table at the user terminal for the first hopping sequence resource to select.
- 36.** (Previously Presented) The method of claim 27, wherein computing a function at the user terminal for the first hopping sequence resource to select includes searching a look up table using information from the page to perform the search.

37. (Original) The method of claim 27, wherein receiving a page from a base station at a user terminal via a RF resource includes receiving a page identifier.

38. (Original) The method of claim 37, wherein receiving the page at the user terminal via the RF resource further comprises examining whether the page identifier in the page matches the page identifier assigned to the user terminal.

39. (Previously Presented) The method of claim 38, wherein transmitting the page response from the user terminal via the first hopping sequence resource in response to the page comprises transmitting the page response from the user terminal via the first hopping sequence resource in response to the page if the page identifier in the page matches the page identifier assigned to the user terminal.

40. (Currently Amended) An article of manufacture, comprising:

a machine accessible medium providing instructions, that when executed by a machine, cause the machine to:

compute a function to determine a page listening pattern followed by a user terminal;

select a radio frequency resource to transmit a page **including a page identifier assigned to a user terminal**, the radio frequency resource selected based at least in part on the computed function;

receive a page response via a resource in response to the page;

transmit a message acknowledging the page response, the message identifying a second resource for transmitting a data stream; and

transmit the data stream via the second resource;

wherein one of the first and second resources comprises a sequence of radio frequency resources that follow a hopping sequence.

41. (Original) The article of manufacture of claim 40, wherein the one of the first and second resources that comprises a sequence of radio frequency resources that follow a hopping sequence, comprises a sequence of radio frequency resources that follow a hopping sequence

among one of a set of radio frequency channels, a set of time slots, and a set of code division multiple access codes.

42. (Canceled)

43. (Original) The article of manufacture of claim 40, wherein the instructions, that when executed by a machine, cause the machine to select a first resource to transmit a page, comprise instructions, that when executed by the machine, cause the machine to select a first resource that is available to transmit a page.

44. (Currently Amended) An article of manufacture, comprising:

a machine accessible medium providing instructions, that when executed by a machine, cause the machine to:

receive a page via a radio frequency resource, the radio frequency resource selected by the base station from among multiple radio frequency resources;

select a first resource to transmit a page response, including computing a function to determine the first resource to select, **the first resource being one of multiple hopping sequences resources having a sequence of radio frequency resources that follow a hopping sequence;**

transmit the page response via the first resource in response to the page;

receive a message acknowledging the page response, the message identifying a second resource for transmitting a data stream; and

transmit the data stream via the second **resource.** ~~resource;~~

~~wherein one of the first and second resources comprises a sequence of radio frequency resources that follow a hopping sequence.~~

45. (Currently Amended) The article of manufacture of claim 44, wherein the ~~one of the first and second resources that comprises a~~ **resource having the** sequence of radio frequency resources that follow a hopping sequence, comprises a sequence of radio frequency resources that follow a hopping sequence among one of a set of radio frequency channels, a set of time slots, and a set of code division multiple access codes.

46. (Currently Amended) The article of manufacture of claim 44, wherein the instructions, that when executed by the machine, cause the machine to select a first resource to transmit a page response comprises a first resource that is available to transmit a page response.

47. (Canceled)

48. (Previously Presented) The article of manufacture of claim 44, wherein the instructions, that when executed by the machine, cause the machine to compute a function for the first resource to select comprises instructions, that when executed by the machine, cause the machine to search a look up table for the first resource to select.

49. (Previously Presented) The article of manufacture of claim 44, wherein the instructions, that when executed by the machine, cause the machine to compute a function for the first resource to select comprises instructions, that when executed by the machine, cause the machine to search a look up table using information from the page to perform the search.

50. (Original) The article of manufacture of claim 49, wherein the instructions, that when executed by the machine, cause the machine to receive the page via the RF resource further comprises instructions, that when executed by the machine, cause the machine to receive a page including a page identifier and examine whether the page identifier in the page matches the page identifier assigned to the machine.

51. (Original) The article of manufacture of claim 50, wherein the instructions, that when executed by the machine, cause the machine to transmit the page response via the first resource in response to the page comprises instructions, that when executed by the machine, cause the machine to transmit the page response via the first resource in response to the page if the page identifier in the page matches the page identifier assigned to the machine.

52. (Previously Presented) A method of communicating with a user terminal, comprising:
computing a function at a base station to determine a page listening pattern followed by a user terminal;

transmitting a page to the user terminal on one of multiple parallel communication resources on the base station, the one parallel communication resource selected based on a result of the function computed;

receiving a page response from the user terminal at the base station, the page response received on one of the multiple parallel communication resources, the communication resource a sequence of radio frequency resource hops; and

initiating a communication stream on an available communication resource.

53. (Previously Presented) The method of claim 52, wherein transmitting on one of the multiple parallel communication resources comprises transmitting on one of multiple hardware processing resources.

54. (Previously Presented) The method of claim 53, wherein each hardware processing resource controls a spatial communication channel.

55. (Previously Presented) The method of claim 53, wherein initiating the communication stream on the available communication resource comprises the base station initiating the communication stream on one of the hardware processing resources.

56. (Previously Presented) The method of claim 55, wherein initiating the communication stream on the one hardware processing resource comprises a receiving hardware processing resource initiating the communication stream on a communication resource controlled by the hardware processing resource, independent of the other hardware processing resources.

57. (Previously Presented) The method of claim 52, wherein receiving the page response on the communication resource comprises receiving the page response on one of multiple hopping sequences present on the base station.

58. (Previously Presented) The method of claim 57, wherein receiving the page response on the one hopping sequence comprises receiving the page response on a hopping sequence indicated by the base station to the user terminal.